

List of Claims

1. (currently amended) A cooling system for a vehicle, said cooling system comprising:

a cooling system enclosure being positioned in a fore portion of said vehicle and defining an ambient air flow path therethrough;

an engine enclosure being positioned in said fore portion of said vehicle, said engine enclosure being aft of said cooling system enclosure, said engine enclosure being adapted to partially cover an engine positioned in said engine enclosure; and

at least one of said engine enclosure and said cooling system enclosure inhibiting air in said ambient air flow path from flowing over an engine positioned in said engine enclosure a partition separating said engine enclosure and said cooling system enclosure, said partition being adapted to substantially block a mass of ambient air from flowing through said cooling system enclosure and said engine enclosure.

2. (cancelled)

3. (currently amended) The cooling system of claim 1 2 further including a liquid cooling conduit positioned in said connecting member extending between said cooling system enclosure and said engine enclosure.

4. (currently amended) The cooling system of claim 3 2 further including a means for cooling a fluid radiator positioned in said cooling enclosure and fluidly connected to the liquid cooling conduit.

5. (cancelled)

6. (currently amended) The cooling system of claim 5 4 further including a fan positioned aft of said means for cooling radiator.

7. (currently amended) The cooling system of claim 6 further including a shroud positioned aft of said heat exchanger, said shroud being adapted to direct said mass of air away from said partition in said cooling system enclosure.

8. (currently amended) The cooling system of claim 1 wherein an enclosure aft portion of said cooling system enclosure has a height H3 greater than a height H1 of an engine fore portion of said engine enclosure.

9. (currently amended) The cooling system of claim 1 wherein said partition is integral with said engine enclosure includes and integral partition.

10. (currently amended) The cooling system of claim 1 further including a means for inducing additional ambient air wherein said ambient air flow path is a first ambient air flow path;

said engine enclosure including an air scoop and at least one vent that define portions of a second ambient flow path through said engine enclosure.

11. (previously presented) The cooling system of claim 1 further including a frame wherein said engine is attached to a fore portion of said frame; and a connecting member positioned between said engine enclosure and said cooling enclosure;

wherein said engine enclosure is positioned about said engine, said engine enclosure having an engine fore portion and an engine aft portion;

wherein said cooling system enclosure is positioned fore of said engine enclosure, said cooling system enclosure having an enclosure fore portion and an enclosure aft portion, said enclosure aft portion of said cooling system enclosure being separated from said enclosure fore portion of said engine enclosure by a predetermined distance; and

wherein said partition is connected with said engine fore portion of said engine enclosure, said partition being adapted to inhibit said mass of ambient air flowing

through said cooling system enclosure from entering said engine enclosure through said engine fore portion of said engine enclosure.

12. (previously presented) The vehicle of claim 11 further including a means for reducing an air pressure between said engine enclosure and said cooling system enclosure.

13. (original) The vehicle of claim 11 wherein said enclosure aft portion of said cooling enclosure is a height H1 and said engine fore portion of said engine enclosure is a height H2, said height H2 being less than said height H1.

14. (previously presented) The vehicle of claims 11 further including a heat exchanger positioned in said cooling system enclosure and a fan positioned aft of said heat exchanger.

15. (original) The vehicle of claim 14 further including a shroud positioned about said fan, said shroud being adapted to direct said mass ambient air away from said partition.

16. (original) The vehicle of claim 11 further including a means for inducing additional ambient air.

17. (previously presented) The cooling system of claim 1 wherein the cooling system operates a method for cooling an engine comprising the steps of:
passing a mass of ambient air through a cooling enclosure;
exchanging heat between a cooling fluid and said mass of ambient air;
inhibiting the mass of ambient air from passing into said engine enclosure;
and
directing said cooling fluid into said engine enclosure.

18. (original) The method for cooling of claim 17 further including the step of reducing an air pressure between said engine enclosure and said cooling enclosure.

19. (original) The method for cooling of claim 18 wherein said step of reducing includes accelerating an ambient air mass adjacent an enclosure aft portion of said cooling enclosure.

20. (original) The method for cooling of claim 17 wherein said step of inhibiting includes blocking the mass of ambient air from entering an engine fore portion of said engine enclosure.